



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,444	11/08/2001	Bassam H. Chamas	7707.0018	5272

7590 06/09/2004

Finnegan, Henderson, Farabow,
Garrett & Dunner, L.L.P.
1300 I Street, N.W.
Washington, DC 20005-3315

EXAMINER

TWEEL JR, JOHN ALEXANDER

ART UNIT	PAPER NUMBER
----------	--------------

2636

DATE MAILED: 06/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/986,444

Applicant(s)

CHAMAS ET AL.

Examiner

John A. Tweel, Jr.

Art Unit

2636

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-14, 22 and 23 is/are allowed.
- 6) ☒ Claim(s) 15-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2, 3, 4, 5.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:
 - Paragraph 6, Line 1: A word such as --with-- is needed before the word "one".
 - Paragraph 39, Line 3: The word "values" should be singular.Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 15-21 are rejected under 35 U.S.C. 102(b) as being anticipated by **Briffe et al** [U.S. 6,057,786].

For claim 15, the airspace navigation system taught by **Briffe** includes the following claimed subject matter, as noted, 1) the claimed navigation data module is met by the modular avionics units (Nos. 65a-65d) in conjunction with the communications bus (No. 66) that receives navigation data, 2) the claimed controller is met by the flight management system computer (No. 63) that receives said navigation data, and 3) the

Art Unit: 2636

claimed display is met by the primary flight display (No. 22) seen in Figure 5 that depicts both a horizontal mode and vertical mode in response to navigation data.

For claim 16, the system of **Briffe** uses GPS signals (Col. 5, Ln. 3).

For claim 17, the system of **Briffe** displays weather-radar images.

For claim 18, the system of **Briffe** receives data from the avionics system of the aircraft.

For claim 19, the system of **Briffe** receives data from communications receivers (Col. 5, Ln. 4).

For claim 20, the system of **Briffe** includes a CD-ROM reader (No. 67).

For claim 21, the system of **Briffe** includes a radio interface (No. 69).

4. Claims 1-14, 22, and 23 are allowed.

5. The following is a statement of reasons for the indication of allowable subject matter:

Each allowed independent claim presents an unobvious combination of subject matter; that is, displaying airspace navigation information in a first mode, detecting a navigation event, and automatically displaying airspace navigation information in the existing first mode and at least one additional mode in response to said navigation event. The rejected independent claim above does not contain this particular combination and is easily rejected using the above prior art.

Art Unit: 2636

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Gaultier [U.S. 5,758,297] controls navigation of an aircraft using a processor with screen and keys.

Schardt et al [U.S. 6,085,129] presents an integrated vertical and horizontal flight display.

Tankersley [U.S. 6,392,661] presents situational awareness information on a display screen having maps.

Barber et al [U.S. 6,512,527] displays flight management information on a plurality of menus.

Derderian [U.S. 6,639,522] presents chronological material throughout the journey of an aircraft.

Barber et al [U.S. 6,690,298] shows an enhanced situation of an aircraft.


Langner et al [U.S. 6,696,980] integrates cockpit controls onto a single interface.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. Tweel, Jr. whose telephone number is 703 308 7826. The examiner can normally be reached on M-F 10-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Hofsass can be reached on 703 305 4717. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JAT
5/29/04



JOHNTWEEL
PRIMARY EXAMINER